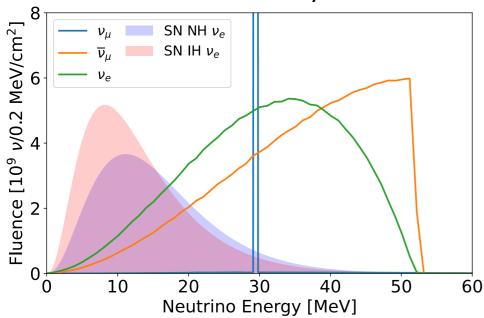
Future Physics Opportunities at the Oak Ridge National Laboratory Spallation Neutron Source

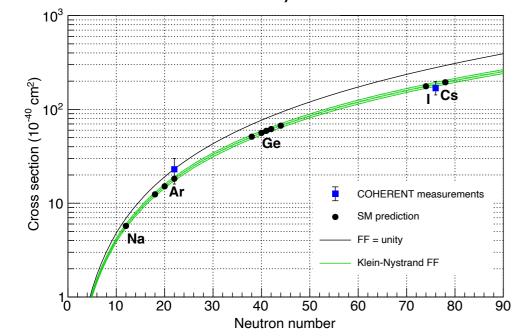
Jason Newby (ORNL), Dan Pershey (Duke), Rebecca Rapp (W&J College), <u>Yun-Tse Tsai (SLAC)</u> P5 Town Hall Open Session March 24th, 2023

Physics with SNS Neutrinos

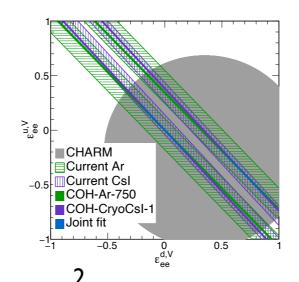
SNS v: π^+ decay-at-rest



CEVNS Results by COHERENT



- Coherent Elastic v-Nucleus Scattering (CEvNS), discovered in 2017 by COHERENT here
- Test SM and probe BSM by precisely measuring CEvNS
- Inelastic v interactions: relevant to supernova neutrino measurements in DUNE





Current & Potential Detectors

